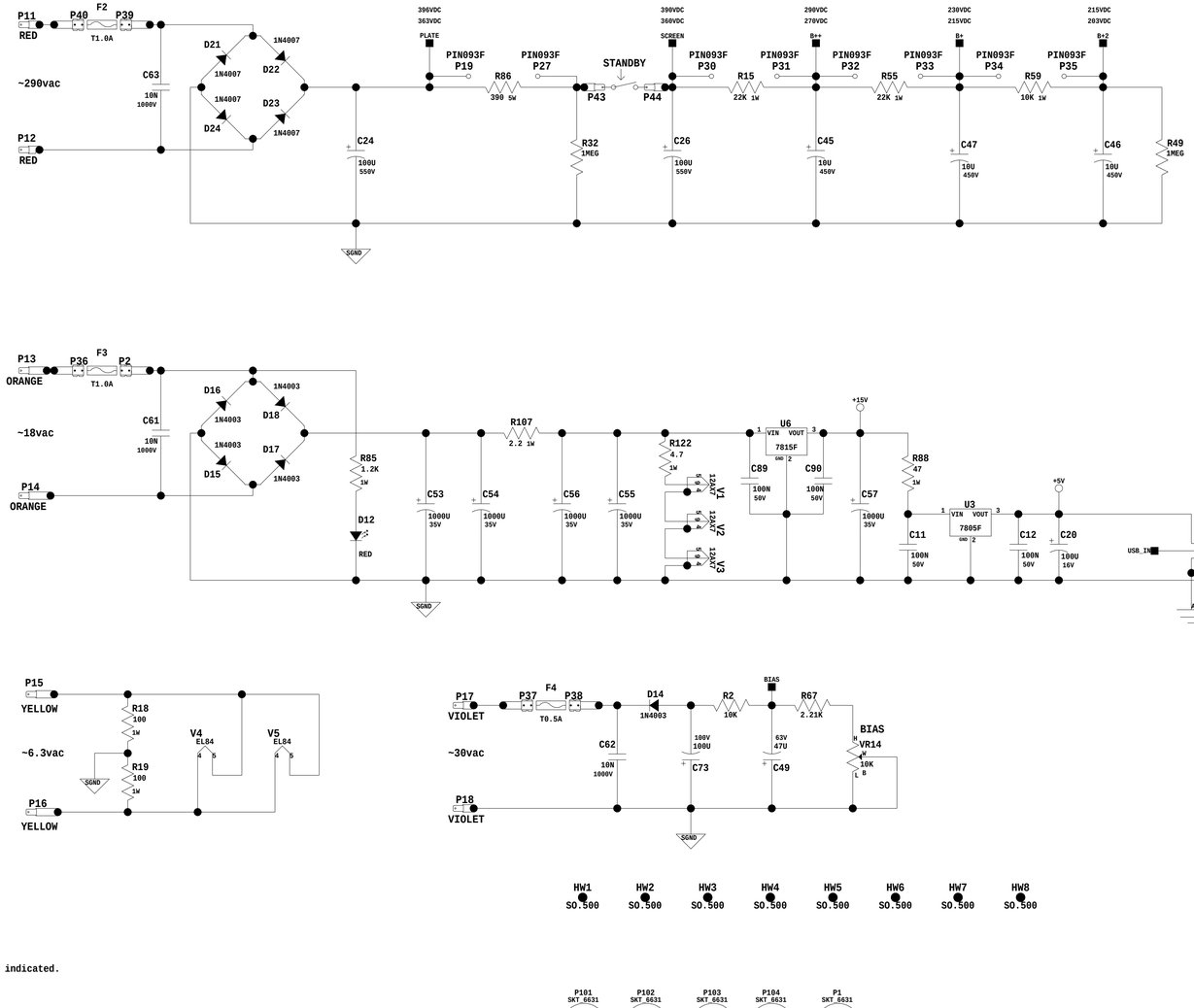
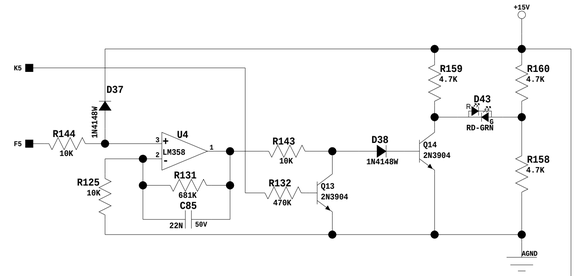
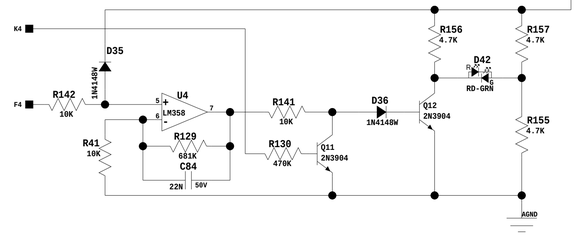
REV	Eng	Date:	Revision Description	ECN#
A	PJS	MAR 2014	ORIGINAL SCHEMATIC	N/A
B	PJS	08/22/14	PROTOTYPE MODIFICATIONS	N/A
C	PJS	11/21/14	PILOT RUN MODIFICATIONS	N/A
D				
E				
F				

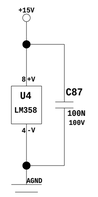
INDEX

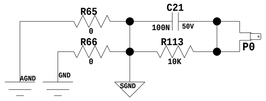
SHEET	DESCRIPTION
1	COVER / POWER SUPPLY
2	AUDIO CIRCUITRY











Note: All thru hole Resistors are 1/4 Watt unless otherwise indicated.
All SMT 1206 Resistors are 1/4 Watt.
All SMT 0805 Resistors are 1/10 Watt.
Note Capacitor Values are indicated as Follows:
val P = pF (picoFarads) val * 10 exp-12
val N = nF (nanoFarads) val * 10 exp-9 (1N=1000pF, 100N=0.1uF)
val U = uF (microFarads) val * 10 exp-6

Company Proprietary Information

Patents:

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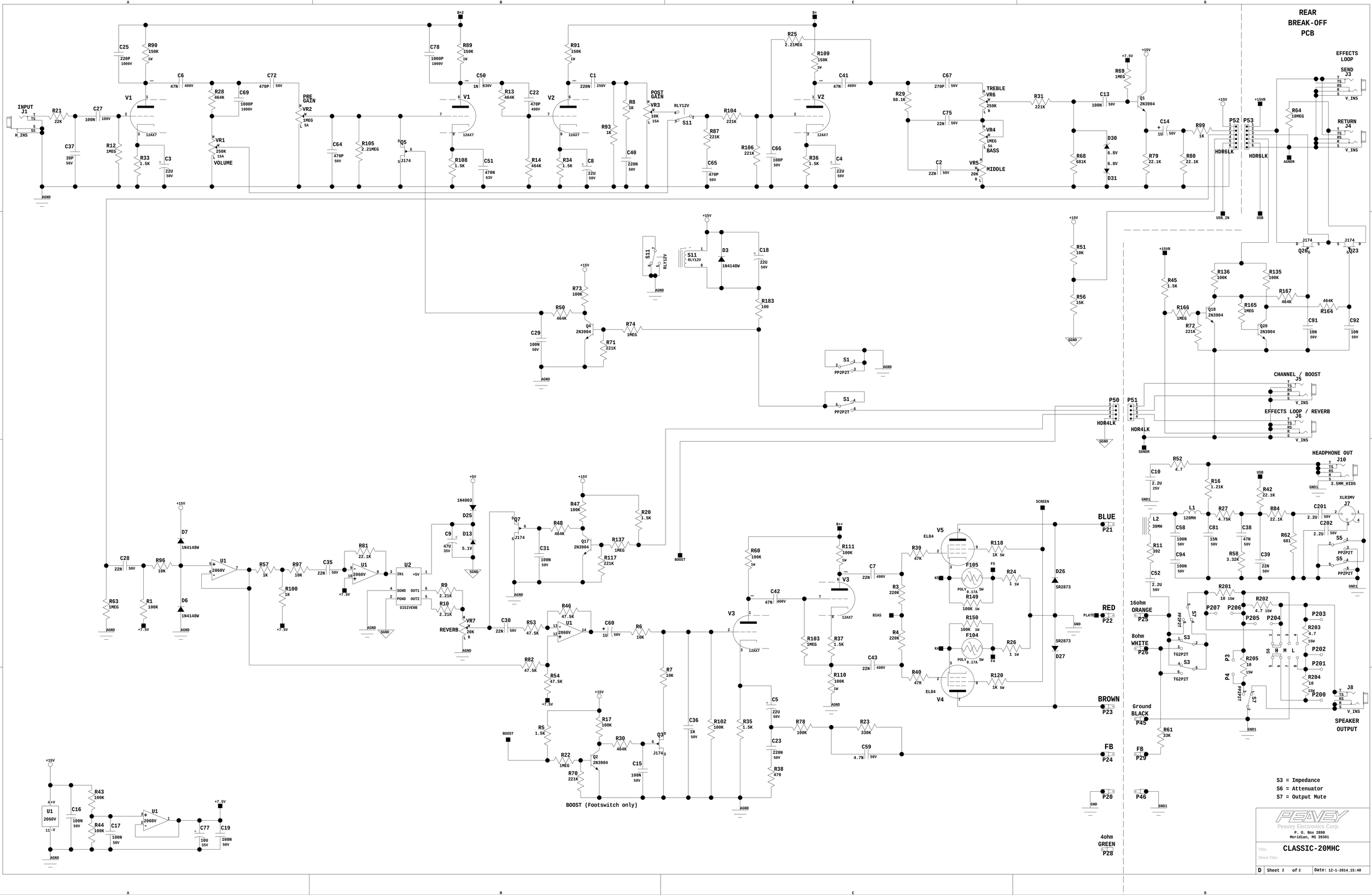
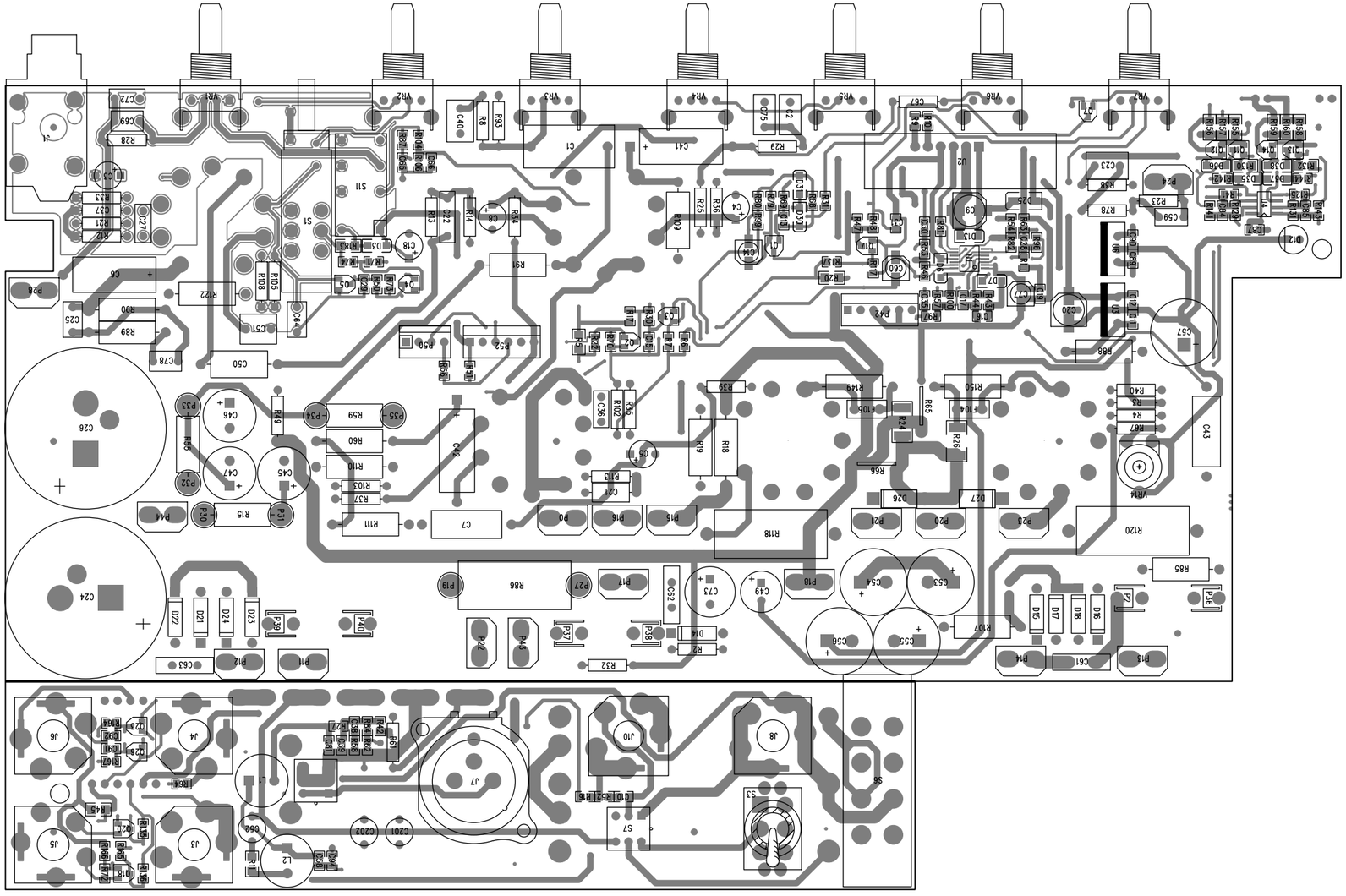
Peavey Electronics Corp.
P. O. Box 2898
Meridian, MS 39301

Product:
Title: CLASSIC-20MHC
Project Number:
Eng: PJS
Release Date:
D | Sheet 1 of 2
Saved: 12-1-2014_15:40


REAR
BREAK-OFF
PCB
INPUT
J1
H_INS
S
SS
T
TS
AGND
C25
220P
1000V
R90
150K
1W
C6
47N
400V
R28
464K
C69
1000P
1000V
C72
470P
50V
PRE
GAIN
VR2
1MEG
5A
V1
12AX7
C27
100N
100V
R21
22K
C37
39P
50V
R12
1MEG
R33
1.5K
C3
22U
50V
VOLUME
VR1
250K
15A
C64
470P
50V
R105
2.21MEG
Q5
J174
B+2
C78
1000P
1000V
R89
150K
1W
C50
1N
630V
R13
464K
C22
470P
400V
R108
1.5K
C51
470N
63V
R91
150K
1W
C1
220N
250V
V2
12AX7
R14
464K
R34
1.5K
C8
22U
50V
R8
1K
R93
1K
C40
220N
50V
POST
GAIN
VR3
10K
15A
RLY12V
S11
B+
R25
2.21MEG
R109
150K
1W
C41
47N
400V
R104
221K
R87
221K
C65
470P
50V
R106
221K
C66
100P
50V
R36
1.5K
C4
22U
50V
R29
68.1K
C67
270P
50V
C75
22N
50V
C2
22N
50V
TREBLE
VR6
250K
VR4
1MEG
5A
BASS
VR5
20K
MIDDLE
R31
221K
C13
100N
50V
R68
681K
D30
6.8V
D31
6.8V
+7.5V
R69
1MEG
Q1
2N3904
C14
1U
50V
R79
22.1K
R99
1K
R80
22.1K
+15V
P52
P53
HDR6LK
USB_IN
USB
+15VR
R64
10MEG
AGNDR
EFFECTS
LOOP
SEND
J3
RETURN
J4
V_INS
R51
10K
R56
15K
SGND
R45
1.5K
R166
1MEG
R136
100K
R135
100K
Q18
2N3904
R167
464K
R165
1MEG
Q20
2N3904
R164
464K
R72
221K
C91
10N
50V
C92
10N
50V
J174
Q22
Q23
CHANNEL / BOOST
J5
EFFECTS LOOP / REVERB
J6
HDR4LK
SGNDR
HEADPHONE OUT
J10
3.5MM_HID5
GND1
C10
2.2U
20V
R52
4.7
R16
1.21K
USB
R42
22.1K
XLR3MV
J7
C201
2.2U
50V
C202
2.2U
50V
S5
PP2P2T
L1
120MH
L2
39MH
R11
392
C52
2.2U
50V
C58
100N
50V
C94
100N
50V
R27
4.75K
C81
15N
50V
C38
47N
50V
R58
3.32K
C39
22N
50V
R84
22.1K
R62
681
GND1
16ohm
ORANGE
P25
8ohm
WHITE
P26
S3
TG2P2T
S7
P2P2T
R201
10 15W
R202
4.7 15W
P207
P206
P205
P204
P203
R203
4.7
15W
P202
P201
R204
10
15W
P200
S6
H
M
L
P3
P4
R205
10
15W
J8
Ground
BLACK
P45
R61
33K
FB
P29
SPEAKER
OUTPUT
S3 = Impedance
S6 = Attenuator
S7 = Output Mute
P46
GND1
R73
100K
R50
464K
C29
100N
50V
Q4
2N3904
R74
1MEG
R71
221K
S11
RLY12V
D3
1N4148W
C18
22U
50V
R183
100
S1
PP2P2T
R43
100K
C16
100N
50V
R44
100K
C17
100N
50V
U1
2060V
C77
10U
35V
C19
100N
50V
D7
1N4148W
D6
1N4148W
C28
22N
50V
R96
10K
R63
1MEG
R1
100K
R57
1K
R97
10K
R100
1K
C35
22N
50V
R81
22.1K
U2
DIGIVERB
+5V
1N4003
D25
C9
47U
35V
D13
5.1V
SGND
R9
2.21K
R10
2.21K
REVERB
VR7
20K
R47
100K
R48
464K
Q17
2N3904
R137
1MEG
R117
221K
R20
1.5K
Q7
J174
C31
100N
50V
R46
47.5K
C30
22N
50V
R53
47.5K
C60
1U
50V
R6
10K
R82
47.5K
R54
47.5K
R7
10K
C36
1N
50V
R102
100K
R35
1.5K
C5
22U
50V
C23
220N
50V
R38
470
R78
100K
R23
330K
C59
4.7N
50V
R5
1.5K
R17
100K
R30
464K
Q3
J174
R22
1MEG
Q2
2N3904
R70
221K
C15
100N
50V
BOOST
BOOST (Footswitch only)
R60
100K
1W
R111
100K
1W
R110
100K
1W
R103
1MEG
R37
1.5K
C42
47N
400V
C43
22N
400V
V3
12AX7
V4
EL84
V5
EL84
R39
47K
R40
47K
R3
220K
R4
220K
BIAS
F105
F104
POLY
0.17A
SW
R149
100K 1W
R150
100K 1W
R118
1K 5W
R120
1K 5W
R24
1 1W
R26
1 1W
F5
F4
K5
K4
SCREEN
D26
SR2873
D27
SR2873
PLATE
GND
BLUE
P21
RED
P22
BROWN
P23
FB
P24
P20
GND
4ohm
GREEN
P28
R63
1MEG
R1
100K
R28
464K
VR1
250K
15A
R12
1MEG
R33
1.5K
R108
1.5K
R14
464K
R34
1.5K
R93
1K
R87
221K
R106
221K
R36
1.5K
R29
68.1K
R68
681K
R79
22.1K
R80
22.1K
R50
464K
R73
100K
R74
1MEG
R71
221K
R183
100
R54
47.5K
R82
47.5K
R46
47.5K
R53
47.5K
R6
10K
R7
10K
R5
1.5K
R17
100K
R30
464K
R22
1MEG
R70
221K
R35
1.5K
R102
100K
R78
100K
R23
330K
R59
4.7M
R60
100K
1W
R111
100K
1W
R110
100K
1W
R103
1MEG
R37
1.5K
R3
220K
R4
220K
R39
47K
R40
47K
R118
1K 5W
R120
1K 5W
R24
1 1W
R26
1 1W
R149
100K 1W
R150
100K 1W
R51
10K
R56
15K
R45
1.5K
R166
1MEG
R136
100K
R135
100K
R167
464K
R165
1MEG
R164
464K
R72
221K
R52
4.7
R16
1.21K
R42
22.1K
R84
22.1K
R62
681
R27
4.75K
R58
3.32K
R11
392
R52
4.7
R201
10 15W
R202
4.7 15W
R203
4.7
15W
R204
10
15W
R205
10
15W
R61
33K
R43
100K
R44
100K
R69
1MEG
R64
10MEG
R99
1K
R109
150K
1W
R25
2.21MEG
R31
221K
R97
10K
R100
1K
R57
1K
R96
10K
R21
22K
R99
1K
R79
22.1K
R80
22.1K
R68
681K
R29
68.1K
R106
221K
R104
221K
R87
221K
R36
1.5K
R14
464K
R108
1.5K
R105
2.21MEG
R12
1MEG
R33
1.5K
R28
464K
VR1
250K
15A
R63
1MEG
R1
100K
R93
1K
R8
1K
R137
1MEG
R117
221K
R20
1.5K
R89
150K
1W
R91
150K
1W
R13
464K
R34
1.5K
R14
464K
R108
1.5K
R90
150K
1W
R12
1MEG
R33
1.5K
R28
464K
VR1
250K
15A
R63
1MEG
R1
100K
R81
22.1K
R100
1K
R97
10K
R57
1K
R96
10K
R21
22K
R105
2.21MEG
R64
10MEG
R69
1MEG
R99
1K
R109
150K
1W
R25
2.21MEG
R31
221K
R97
10K
R100
1



P206
P3
P203
P205
P201
P207
P203
P200
R201
R203
R204
P4
R205
R202
P204
P53
P51
P45
P25
P29
P46
P26
HW4
HW3
HW1
HW2
V3
P103
V5
P1
V4
P104
HW5
HW7
HW6
HW8
V1
P101
V2
P102
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BILL OF MATERIAL REPORT

REPORT DATE/TIME: 12/2/2014 11:28:56 AM

BOARD NAME: Classic 20 Micro Head ASSEMBLY LEVEL NUMBER: 32206261

PROJECT NUMBER: P1200006 DESIGNER: FJE - 32102164

Qty.	Part #	Description	Reference Designators
6	30200025	4.7K 1/4W 5% MF 1206	R155 R156 R157 R158 R159 R160
2	30200035	470K 1/4W 5% MF 1206	R130 R132
3	30200128	1.50K 1/4W 1% MF 1206	R5 R20 R45
1	30200136	392 1/4W 1% MF 1206	R11
11	30200174	10K 1/10W 1% MF 0805	R6 R7 R41 R51 R96 R97 R125 R141 R142 R143 R144
3	30200188	1.00K 1/10W 1% MF 0805	R57 R99 R100
8	30200194	100K 1/10W 1% MF 0805	R1 R17 R43 R44 R47 R73 R135 R136
7	30200195	1.00M 1/10W 1% MF 0805	R22 R63 R69 R74 R137 R165 R166
1	30200202	3.32K 1/10W 1% MF 0805	R58
4	30200205	47.5K 1/10W 1% MF 0805	R46 R53 R54 R82
1	30200241	4.70 1/10W 1% MF 0805	R52
1	30200251	4.75K 1/10W 1% MF 0805	R27
5	30200256	22.1K 1/10W 1% MF 0805	R42 R79 R80 R81 R84
2	30200267	2.21K 1/10W 1% MF 0805	R9 R10
1	30200334	15.0K 1/10W 1% MF 0805	R56
1	30200339	10.0M 1/10W 1% MF 0805	R64
8	30200342	221K 1/10W 1% MF 0805	R31 R70 R71 R72 R87 R104 R106 R117
1	30200366	100 1/4W 5% FUSIBLE 1206	R183

5	30200417	464K	1/10W 1% MF 0805	R30 R48 R50 R164 R167
2	30200418	1	1W 1% MF 2512	R24 R26
1	30200438	1.21K	1/10W 1% MF 0805	R16
1	30200491	681	1/10W 1% 0805	R62
3	30200630	681K	1/10W 1% MF 0805	R68 R129 R131
2	30210003	100	1W 5% MO AXL	R18 R19
2	30210005	22K	1W 5% MO AXL	R15 R55
1	30210011	47	1W 5% MO AXL	R88
1	30210015	4.7	1W 5% MO AXL	R122
5	30210017	100K	1W 5% MO AXL	R60 R110 R111 R149 R150
1	30210018	10K	1W 5% MO AXL	R59
1	30210024	1.2K	1W 5% MO AXL	R85
1	30210025	2.2	1W 5% MO AXL	R107
4	30210123	150K	1W 5% MO AXL	R89 R90 R91 R109
1	30240015	470	1/4W 5% CF AXL	R38
6	30240018	1500	1/4W 5% CF AXL	R33 R34 R35 R36 R37 R108
1	30240029	22K	1/4W 5% CF AXL	R21
1	30240030	33K	1/4W 5% CF AXL	R61
2	30240031	47K	1/4W 5% CF AXL	R39 R40
2	30240036	220K	1/4W 5% CF AXL	R3 R4
1	30240037	330K	1/4W 5% CF AXL	R23
1	30240145	2.21K	1/4W 1% MF AXL	R67
2	30240151	100K	1/4W 1% MF AXL	R78 R102
2	30241050	10K	1/4W 1% MF AXL	R2 R113
1	30241070	68.1K	1/4W 1% MF AXL	R29
2	30241077	1K	1/4W 1% MF AXL	R8 R93
4	30241118	1M	1/4W 1% MF AXL	R12 R32 R49 R103
3	30241119	464K	1/4W 1% MF T&R	R13 R14 R28

2	30241140	2.21M 1/4W 1% MF AXL	R25 R105
1	30250020	390 5W 5% FP AXLH	R86
2	30250060	1K 5W 10% WW AXLH SL	R118 R120
2	30250299	4.7 15W 10% WW AXLH	R202 R203
3	30250301	10 15W 10% WW AXLH	R201 R204 R205
2	30250305	0.17A PTC (RESET) FUSE SMT	F104 F105
1	30300079	47UF 35V 20% EL SMT6	C9
2	30300081	1UF 50V 20% EL SMT4	C14 C60
1	30300083	100UF 16V 20% EL SMT6	C20
1	30300088	100PF 50V 5% NPO 0805	C66
1	30300090	470PF 50V 5% NPO 0805	C65
2	30300093	0.1UF 50V 10% X7R 0805	C58 C94
2	30300116	0.01UF 50V 5% X7R 0805	C91 C92
11	30300121	0.1UF 50V 5% X7R 0805	C11 C12 C13 C15 C16 C17 C19 C29 C31 C89 C90
1	30300131	10UF 35V 20% EL SMT4	C77
6	30300148	0.022UF 50V 5% X7R 0805	C28 C30 C35 C39 C84 C85
1	30300154	0.015UF 50V 10% X7R 0805	C81
1	30300171	0.047UF 50V 5% X7R 0805	C38
1	30300249	0.1UF 100V 20% X7R 0805	C87
1	30300258	2.2UF 25V 10% X7R 0805	C10
3	30320099	0.01UF 1000V 80-20% Z5U	C61 C62 C63
3	30320105	0.047UF 400V 10% PES AXL	C6 C41 C42
1	30320129	0.22UF 250V 10% PE RADH	C1
5	30320181	22UF 50V 20% EL RAD	C3 C4 C5 C8 C18
3	30320184	2.2UF 50V 20% ELN RAD	C52 C201 C202
5	30320186	1000UF 35V 20% EL RAD	C53 C54 C55 C56 C57
1	30320281	1000PF 630V 10% PE AXL	C50

2	30320283	0.022UF 400V 10% PE AXL	C7 C43
1	30320320	220PF 1000V 20% CER RAD	C25
1	30320569	470PF 400V 20% PP RADH	C22
2	30320573	100UF 550V 20% EL SNPH	C24 C26
1	30320623	47UF 63V 20% EL RAD	C49
1	30320624	100UF 100V 20% EL RAD	C73
2	30320667	1000PF 1000V 10% CER RAD	C69 C78
3	30320676	10UF 450V 20% EL RADIAL	C45 C46 C47
1	30330113	0.1UF 100V 10% PPS RAD	C27
1	30330116	4700PF 50V 5% PE RAD	C59
2	30330118	470PF 50V 5% PE RAD	C64 C72
2	30330128	0.22UF 50V 5% PE RAD	C23 C40
2	30330134	0.022UF 50V 5% PE RAD	C2 C75
1	30330156	1000PF 50V 5% PE RAD	C36
1	30330159	0.47UF 63V 5% PES RAD	C51
1	30340052	39PF 50V 5% NPO AXL	C37
1	30340057	270PF 50V 10% NPO AXL	C67
1	30340101	0.1UF 50V 10% X7R AXL	C21
1	30400318	7815F +15V INS TO-220F HOR	U6
1	30400322	7805F +5V INSUL TO-220F	U3
2	30402873	SR2873 2KV, 250MA DIODE	D26 D27
1	30409209	DIGITAL REVERB MODULE BTDR-2VM	U2
1	30418015	LM358 DUAL OPAMP SMT	U4
10	30418135	2N3904 NPN SOT23	Q1 Q2 Q4 Q11 Q12 Q13 Q14 Q17 Q18 Q20
5	30418139	J-174 P-JFET 30V SOT23	Q3 Q5 Q7 Q23 Q26
2	30418140	6.8V ZENER (SOD123)-SMT	D30 D31
1	30418261	1N4003 - SMT - SMA PKG	D25
7	30418328	1N4148W SWITCHING DIODE	D3 D6 D7 D35 D36 D37 D38

1	30418389	5.1V ZENER (SOD123)-SMT	D13
1	30418578	2060 QUAD OPAMP TSSOP1414	U1
2	30450037	BICOLOR LED R/G T1	D42 D43
1	30450068	RED T1 3/4 LED S-BRT BULK	D12
5	30464003	1N4003 200V 1A SI DIODE	D14 D15 D16 D17 D18
4	30464007	1N4007 1KV, 1A, SI DIODE	D21 D22 D23 D24
1	30500104	39MH RADIAL INDUCTOR	L2
1	30500105	120MH RADIAL INDUCTOR	L1
2	30600136	0 OHM 22GA JMPR AXL	R65 R66
2	30806623	EL84/6BQ5 POWER TUBE	V4 V5
3	30806629	12AX7 LOW MICROPHONIC	V1 V2 V3
5	30806631	TUBE SKT 9PIN CERAMIC	P1 P101 P102 P103 P104
6	30901714	FUSE CLIP, 5 X 20MM -T&A	P2 P36 P37 P38 P39 P40
8	30901859	STND .500 T4-40,SW,AL,ST	HW1 HW2 HW3 HW4 HW5 HW6 HW7 HW8
1	31190009	10K LIN.-HOR.PC MNT. TRIM POT	VR14
2	31190903	20KB SNGL 12MM HOR	VR5 VR7
1	31190908	250KB SNGL 12MM HOR	VR6
2	31190910	1M5A SNGL 12MM HOR	VR2 VR4
2	31322251	SWITCH DPDT PP 3.3MM PC V	S5 S7
1	31322277	RELAY 12V DPDT .5A	S11
1	31322289	SWITCH DPDT PP 3.3MM PC H	S1
1	31322328	SWITCH 2P3T SLIDE PC V	S6
1	31322476	SWITCH 2P2T TOGGLE	S3
1	31466222	JACK, MONO R/A 1/4" 6.5MM	J1
1	31466324	MXLR NC3MAV A-SER VERT	J7
5	31466542	STEREO HID JACK INSU	J3 J4 J5 J6 J8
1	31466603	JACK, 3.5MM PHONE TRS-SW HI-D	J10

18	33711818	PIN-F .093 FOR COMP MNTG	P3 P4 P19 P27 P30 P31 P32 P33 P34 P35 P200 P201 P202 P203 P204 P205 P206 P207
22	33716194	SPADE .250 PC MNT .093	P0 P11 P12 P13 P14 P15 P16 P17 P18 P20 P21 P22 P23 P24 P25 P26 P28 P29 P43 P44 P45 P46
2	33717015	4 HDR V SR .100" TIN LK	P50 P51
3	33717123	6 HDR V SR .100" TIN LK	P42 P52 P53
1	71190901	10K15A SNGL 12MM HOR	VR3
1	71190909	250K15A SNGL 12MM HOR	VR1

END OF BILL OF MATERIAL REPORT